FIG 1

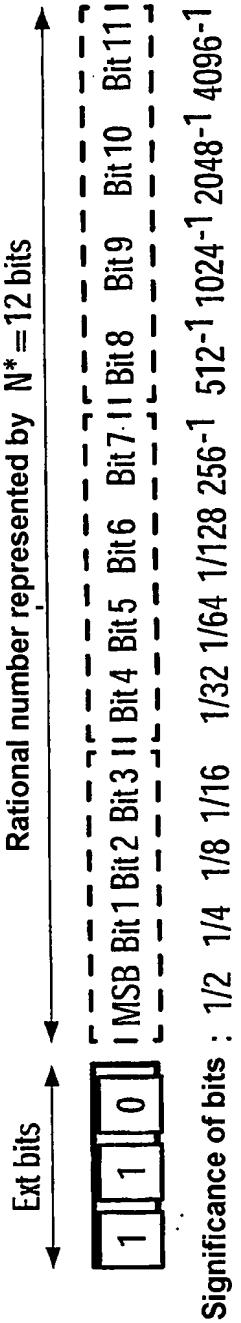

Rational number represented by N* = 12 bits
Ext bits
1
1
0
MSB Bit 1 Bit 2 Bit 3 Bit 4 Bit 5 Bit 6 Bit 7 Bit 8 Bit 9 Bit 10 Bit 11
Significance of bits : 1/2 1/4 1/8 1/16 1/32 1/64 1/128 256^{-1} 512^{-1} 1024^{-1} 2048^{-1} 4096^{-1}

FIG 2

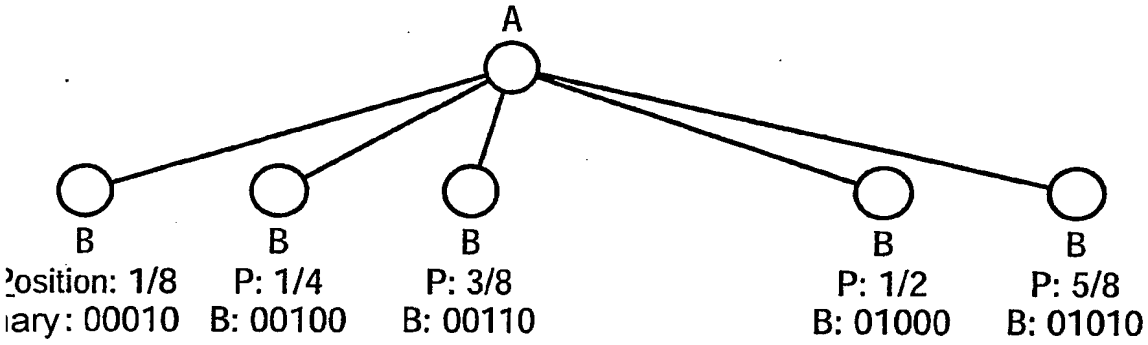
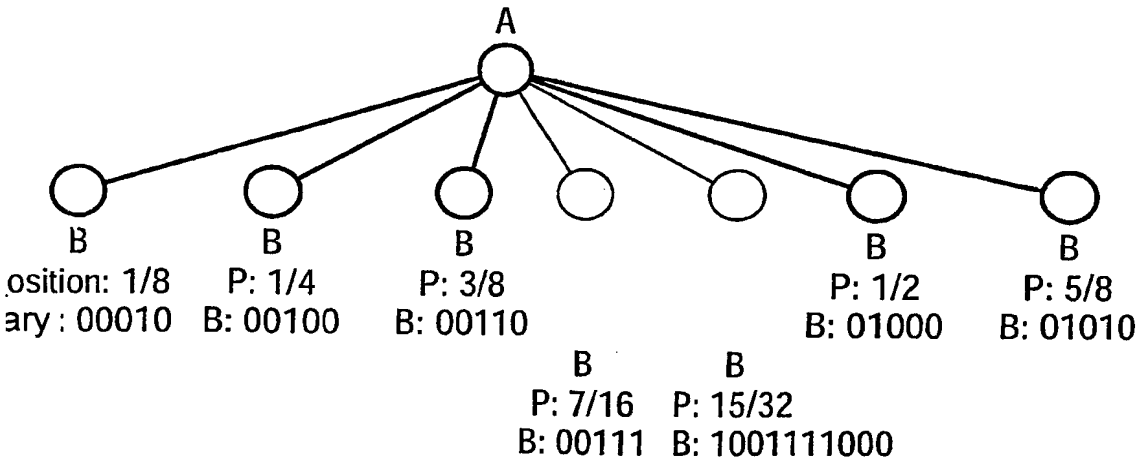

A
B
Position: 1/8
ary: 00010
B
P: 1/4
B: 00100
B
P: 3/8
B: 00110
B
P: 1/2
B: 01000
B
P: 5/8
B: 01010

FIG 3


A
B
osition: 1/8
ary : 00010
B
P: 1/4
B: 00100
B
P: 3/8
B: 00110
B
P: 7/16
B: 00111
B
P: 15/32
B: 1001111000
B
P: 1/2
B: 01000
B
P: 5/8
B: 01010